



SEQUENCE LISTING

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<151> 1996-03-27

<160> 70

<170> PatentIn version 3.3

<210> 1

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<213> Homo sapiens

<400> 1

Ala Thr Leu Leu Thr Leu Leu Ile Ala Val Ile Val Phe Gly Asn Val
1 5 10 15

Leu Val Cys Met Ala Val Ser
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<210> 2

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<213> Homo sapiens

<400> 2

Leu Ile Val Ser Leu Ala Val Ala Asp Leu Leu Val Ala Thr Leu Val
1 5 10 15

Met Pro Trp Val Val Tyr Leu Glu Val Val
20 25

<210> 3

<211> 22

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<213> Homo sapiens

<400> 3

Ile Phe Val Thr Leu Asp Val Met Met Cys Thr Ala Ser Ile Leu Asn
1 5 10 15

Leu Cys Ala Ile Ser Ile
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<210> 4
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<213> Homo sapiens

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Val Thr Val Met Ile Ser Ile Val Trp Val Leu Ser Phe Thr Ile Ser
1 5 10 15

Cys Pro Leu Leu Phe Gly Leu
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Pro Ala Phe Val Val Tyr Ser Ser Ile Val Ser Phe Tyr Val Pro Phe
1 5 10 15

Ile Val Thr Leu Leu Val Tyr Ile
20

<210> 6
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<213> Homo sapiens

<400> 6

Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys Trp Leu Pro Phe
1 5 10 15

Phe Ile Thr His Ile Leu Asn Ile
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<213> Homo sapiens

<400> 7

Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val Asn Ser Ala Val
1 5 10 15

Asn Pro Ile Ile Tyr Thr Thr Phe
20

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<213> Homo sapiens

<400> 8

Met Asp Pro Leu Asn Leu Ser Trp Tyr Asp Asp Asp Leu Glu Arg Gln
1 5 10 15

Asn Trp Ser Arg Pro Phe Asn Gly Ser Asp Gly Lys Ala Asp Arg Pro
20 25 30

His Tyr Asn Tyr Tyr Ala Thr Leu Leu Thr Leu Leu Ile Ala Val Ile
35 40 45

Val Phe Gly Asn Val Leu Val Cys Met Ala Val Ser Arg Glu Lys Ala
50 55 60

Leu Gln Thr Thr Thr Asn Tyr Leu Ile Val Ser Leu Ala Val Ala Asp
65 70 75 80

Leu Leu Val Ala Thr Leu Val Met Pro Trp Val Val Tyr Leu Glu Val
85 90 95

Val Gly Glu Trp Lys Phe Ser Arg Ile His Cys Asp Ile Phe Val Thr
100 105 110

Leu Asp Val Met Met Cys Thr Ala Ser Ile Leu Asn Leu Cys Ala Ile
115 120 125

Ser Ile Asp Arg Tyr Thr Ala Val Ala Met Pro Met Leu Tyr Asn Thr
130 135 140

Arg Tyr Ser Ser Lys Arg Arg Val Thr Val Met Ile Ser Ile Val Trp
145 150 155 160

Val Leu Ser Phe Thr Ile Ser Cys Pro Leu Leu Phe Gly Leu Asn Asn
165 170 175

Ala Asp Gln Asn Glu Cys Ile Ile Ala Asn Pro Ala Phe Val Val Tyr
180 185 190

Ser Ser Ile Val Ser Phe Tyr Val Pro Phe Ile Val Thr Leu Leu Val
195 200 205

Tyr Ile Lys Ile Tyr Ile Val Leu Arg Arg Arg Arg Lys Arg Val Asn
210 215 220

Thr Lys Arg Ser Ser Arg Ala Phe Arg Ala His Leu Arg Ala Pro Leu
225 230 235 240

Lys Gly Asn Cys Thr His Pro Glu Asp Met Lys Leu Cys Thr Val Ile
245 250 255

Met Lys Ser Asn Gly Ser Phe Pro Val Asn Arg Arg Arg Val Glu Ala
260 265 270

Ala Arg Arg Ala Gln Glu Leu Glu Met Glu Met Leu Ser Ser Thr Ser
275 280 285

Pro Pro Glu Arg Thr Arg Tyr Ser Pro Ile Pro Pro Ser His His Gln
290 295 300

Leu Thr Leu Pro Asp Pro Ser His His Gly Leu His Ser Thr Pro Asp
305 310 315 320

Ser Pro Ala Lys Pro Glu Lys Asn Gly His Ala Lys Asp His Pro Lys
325 330 335

Ile Ala Lys Ile Phe Glu Ile Gln Thr Met Pro Asn Gly Lys Thr Arg
340 345 350

Thr Ser Leu Lys Thr Met Ser Arg Arg Lys Leu Ser Gln Gln Lys Glu
355 360 365

Lys Lys Ala Thr Gln Met Leu Ala Ile Val Leu Gly Val Phe Ile Ile
370 375 380

Cys Trp Leu Pro Phe Phe Ile Thr His Ile Leu Asn Ile His Cys Asp
385 390 395 400

Cys Asn Ile Pro Pro Val Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr
405 410 415

Val Asn Ser Ala Val Asn Pro Ile Ile Tyr Thr Thr Phe Asn Ile Glu
420 425 430

Phe Arg Lys Ala Phe Leu Lys Ile Leu His Cys
435 440

<210> 9
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<213> Homo sapiens

<400> 9

Ile Leu Thr Ala Cys Phe Leu Ser Leu Leu Ile Leu Ser Thr Leu Leu
1 5 10 15

Gly Asn Thr Leu Val Cys Ala Ala Val
20 25

<210> 10
<211> 27
<212> PRT
<213> Homo sapiens

<400> 10

Phe Phe Val Ile Ser Leu Ala Val Ser Asp Leu Leu Val Ala Val Leu
1 5 10 15

Val Met Pro Trp Lys Ala Val Ala Glu Ile Ala
20 25

<210> 11
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<213> Homo sapiens

<400> 11

Asn Ile Trp Val Ala Phe Asp Ile Met Cys Ser Thr Ala Ser Ile Leu
1 5 10 15

Asn Leu Cys Val Ile Ser Val Asp
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<210> 12
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<212> PRT
<213> Homo sapiens

<400> 12

Ala Ala Phe Ile Leu Ile Ser Val Ala Trp Thr Leu Ser Val Leu Ile
1 5 10 15

Ser Phe Ile Pro Val Gln Leu Ser Trp
20 25

<210> 13
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<213> Homo sapiens

<400> 13

Thr Tyr Ala Ile Ser Ser Ser Val Ile Ser Phe Tyr Ile Pro Val Ala
1 5 10 15

Ile Met Ile Val Thr Tyr Thr Arg Ile
20 25

<210> 14
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<213> Homo sapiens

<400> 14

Thr Leu Ser Val Ile Met Gly Val Phe Val Cys Cys Trp Leu Pro Phe
1 5 10 15

Phe Ile Leu Asn Cys Ile Leu Pro Phe Cys
20 25

<210> 15
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<213> Homo sapiens

<400> 15

Phe Asp Val Phe Val Trp Phe Gly Trp Ala Asn Ser Ser Leu Asn Pro
1 5 10 15

Ile Ile Tyr Ala Phe Asn Ala Asp
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<210> 16
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<213> Homo sapiens

<400> 16

Gly Met Gly Leu Leu Met Ala Leu Ile Val Leu Leu Ile Val Ala Gly
1 5 10 15

Asn Val Leu Val Ile Val Ala Ile
20

<210> 17
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<212> PRT
<213> Homo sapiens

<400> 17

Ile Met Ser Leu Ala Ser Ala Asp Leu Val Met Gly Leu Leu Val Val
1 5 10 15

Pro Phe Gly Ala Thr Ile Val Val
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<210> 18
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<213> Homo sapiens

<400> 18

Glu Leu Trp Thr Ser Val Asp Val Leu Cys Val Thr Ala Ser Ile Glu
1 5 10 15

Thr Leu Cys Val Ile Ala Leu Asp
20

<210> 19
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<213> Homo sapiens

<400> 19

Arg Gly Leu Val Cys Thr Val Trp Ala Ile Ser Ala Leu Val Ser Phe
1 5 10 15

Leu Pro Ile Leu Met His Trp Trp
20

<210> 20

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<213> Homo sapiens

<400> 20

Arg Ala Tyr Ala Ile Ala Ser Ser Val Val Ser Phe Tyr Val Pro Leu
1 5 10 15

Cys Ile Met Ala Phe Val Tyr Leu
20

<210> 21

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<212> PRT

<213> Homo sapiens

<400> 21

Leu Gly Ile Ile Met Gly Val Phe Thr Leu Cys Trp Leu Pro Phe Phe
1 5 10 15

Leu Ala Asn Val Val Lys Ala Phe
20

<210> 22

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<212> PRT

<213> Homo sapiens

<400> 22

Arg Leu Phe Val Phe Phe Asn Trp Leu Gly Tyr Ala Asn Ser Ala Phe
1 5 10 15

Asn Pro Ile Ile Tyr Cys Arg Ser
20

<210> 23

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<213> Homo sapiens

<400> 23

Gly Val Gly Val Gly Phe Leu Ala Ala Phe Ile Leu Met Ala Val Ala
1 5 10 15

Gly Asn Leu Leu Val Ile Leu Ser Val
20 25

<210> 24
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<212> PRT
<213> Homo sapiens

<400> 24

Phe Ile Val Asn Leu Ala Val Ala Asp Leu Leu Leu Ser Ala Thr Val
1 5 10 15

Leu Pro Phe Ser Ala Thr Met Glu Val Leu
20 25

<210> 25
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<212> PRT
<213> Homo sapiens

<400> 25

Asp Val Trp Ala Ala Val Asp Val Leu Cys Cys Thr Ala Ser Ile Leu
1 5 10 15

Ser Leu Cys Thr Ile Ser Val
20

<210> 26
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<213> Homo sapiens

<400> 26

Ala Ala Ile Leu Ala Leu Leu Trp Val Val Ala Leu Val Val Ser Val
1 5 10 15

Gly Pro Leu Leu Gly Trp Lys Glu Pro
20 25

<210> 27
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<400> 27

Ala	Gly	Tyr	Ala	Val	Phe	Ser	Ser	Val	Cys	Ser	Phe	Tyr	Leu	Pro	Met
1				5					10					15	

Ala	Val	Ile	Val	Val	Met	Tyr	Cys
			20				

<210> 28
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 <213> Homo sapiens

<400> 28

Leu	Ala	Ile	Val	Val	Gly	Val	Phe	Val	Leu	Cys	Trp	Phe	Pro	Phe	Phe
1				5					10					15	

Phe	Val	Leu	Pro	Leu	Gly	Ser	Leu
			20				

<210> 29
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 <212> PRT
 <213> Homo sapiens

<400> 29

Glu	Gly	Val	Phe	Lys	Val	Ile	Phe	Trp	Leu	Gly	Tyr	Phe	Asn	Ser	Cys
1				5					10					15	

Val	Asn	Pro	Leu	Ile	Tyr	Pro	Cys	Ser
			20					25

<210> 30
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 <213> Homo sapiens

<400> 30

Phe	Phe	Asn	Trp	Leu	Gly	Tyr	Ala	Asn	Ser	Ala	Phe	Asn	Pro
1				5					10				

<210> 31
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<212> PRT
<213> Homo sapiens

<400> 31

Val	Phe	Lys	Val	Ile	Phe	Trp	Leu	Gly	Tyr	Phe	Asn	Ser	Cys	Val	Asn
1			5					10						15	

<210> 32
<211> 23
<212> PRT
<213> Homo sapiens

<400> 32

Pro	Ser	Ile	Ala	Thr	Gly	Ile	Val	Gly	Gly	Leu	Leu	Phe	Ile	Val	Val
1			5					10						15	

Val	Ala	Leu	Gly	Ile	Gly	Leu
			20			

<210> 33
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<212> PRT
<213> Homo sapiens

<400> 33

Tyr	Phe	Val	Ile	Gln	Thr	Tyr	Leu	Pro	Cys	Ile	Met	Thr	Val	Ile	Leu
1			5					10						15	

Ser	Gln	Val	Ser	Phe	Trp
			20		

<210> 34
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<213> Homo sapiens

<400> 34

Val	Pro	Ala	Arg	Thr	Val	Phe	Gly	Val	Thr	Thr	Val	Leu	Thr	Met	Thr
1			5					10						15	

Thr	Leu	Ser	Ile	Ser	Ala
			20		

<210> 35
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<212> PRT
<213> Homo sapiens

<400> 35

Met Asp Trp Phe Ile Ala Val Cys Tyr Ala Phe Val Phe Ser Ala Leu
1 5 10 15

Ile Glu Phe Ala Thr Val
20

<210> 36
<211> 22
<212> PRT
<213> Homo sapiens

<400> 36

Leu Ser Arg Ile Ala Phe Pro Leu Leu Phe Gly Ile Phe Asn Leu Val
1 5 10 15

Tyr Trp Ala Thr Tyr Leu
20

<210> 37
<211> 21
<212> PRT
<213> Homo sapiens

<400> 37

Phe Leu Leu Ser Val Ile Gly Phe Ala Val Asp Leu Ala Asn Val Trp
1 5 10 15

Arg Phe Pro Tyr Leu
20

<210> 38
<211> 20
<212> PRT
<213> Homo sapiens

<400> 38

Gly Ala Phe Leu Val Pro Tyr Leu Leu Met Val Ile Ala Gly Met Pro
1 5 10 15

Leu Phe Tyr Met

20

<210> 39
<211> 21
<212> PRT
<213> Homo sapiens

<400> 39

Gly Val Gly Phe Thr Val Ile Leu Ile Ser Leu Tyr Val Gly Phe Phe
1 5 10 15

Tyr Asn Val Ile Ile
20

<210> 40
<211> 19
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<213> Homo sapiens

<400> 40

Trp Gln Leu Thr Ala Cys Leu Val Leu Val Ile Val Leu Leu Tyr Phe
1 5 10 15

Ser Leu Trp

<210> 41
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<212> PRT
<213> Homo sapiens

<400> 41

Val Val Trp Ile Thr Glx Thr Met Pro Tyr Val Val Leu Thr Ala Leu
1 5 10 15

Leu Leu

<210> 42
<211> 18
<212> PRT
<213> Homo sapiens

<400> 42

Val Cys Phe Ser Leu Gly Val Gly Phe Gly Val Leu Ile Ala Phe Ser
1 5 10 15

Ser Tyr

<210> 43
<211> 22
<212> PRT
<213> Homo sapiens

<400> 43

Ile Val Thr Thr Ser Ile Asn Ser Leu Thr Ser Phe Ser Ser Gly Phe
1 5 10 15

Val Val Phe Ser Phe Leu
20

<210> 44
<211> 20
<212> PRT
<213> Homo sapiens

<400> 44

Leu Pro Leu Ser Ser Ala Trp Ala Val Val Phe Phe Ile Met Leu Leu
1 5 10 15

Thr Gly Leu Ile
20

<210> 45
<211> 19
<212> PRT
<213> Homo sapiens

<400> 45

Leu Phe Thr Leu Phe Ile Val Leu Ala Thr Phe Leu Leu Ser Leu Phe
1 5 10 15

Cys Val Thr

<210> 46
<211> 21
<212> PRT
<213> Homo sapiens

<400> 46

Gly Thr Ser Ile Leu Phe Gly Val Leu Ile Glu Ala Ile Gly Val Ala
1 5 10 15

Trp Phe Tyr Gly Val
20

<210> 47
<211> 20
<212> PRT
<213> Homo sapiens

<400> 47

Leu Cys Trp Lys Leu Val Ser Pro Cys Phe Leu Leu Phe Val Val Val
1 5 10 15

Val Ser Ile Val
20

<210> 48
<211> 19
<212> PRT
<213> Homo sapiens

<400> 48

Leu Gly Trp Val Ile Ala Thr Ser Ser Met Ala Met Val Pro Ile Tyr
1 5 10 15

Ala Ala Tyr

<210> 49
<211> 35
<212> PRT
<213> Homo sapiens

<400> 49

Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe Arg Ile
1 5 10 15

Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu
20 25 30

Trp Ser Ser
35

<210> 50
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<212> PRT
<213> Homo sapiens

<400> 50

Gly	Ile	Ile	Met	Gly	Thr	Phe	Thr	Leu	Cys	Trp	Leu	Pro	Phe	Phe	Ile
1				5					10					15	

Val	Asn	Ile	Val	His
			20	

<210> 51
<211> 20
<212> PRT
<213> Homo sapiens

<400> 51

Phe	His	Leu	Ala	Ile	Phe	Asp	Phe	Phe	Thr	Trp	Leu	Gly	Tyr	Leu	Asn
1				5					10					15	

Ser	Leu	Ile	Asn
			20

<210> 52
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<213> Homo sapiens

<400> 52

Val	Asp	Thr	Ala	Met	Pro	Ile	Thr	Ile	Cys	Ile	Ala	Tyr	Phe	Asn	Asn
1				5					10					15	

<210> 53
<211> 16
<212> PRT
<213> Homo sapiens

<400> 53

Leu	Met	Leu	Leu	Ala	Ser	Leu	Asn	Ser	Cys	Thr	Asn	Pro	Trp	Ile	Tyr
1				5					10					15	

<210> 54
<211> 16
<212> PRT
<213> Homo sapiens

<400> 54

Leu Thr Val Ile Ala Gly Leu Val Val Ile Phe Met Met Leu Gly Gly
1 5 10 15

<210> 55

<211> 20

<212> PRT

<213> Homo sapiens

<400> 55

Leu Tyr Ser Ala Phe Thr Trp Leu Gly Tyr Val Asn Ser Ala Val Asn
1 5 10 15

Pro Ile Ile Tyr
20

<210> 56

<211> 20

<212> PRT

<213> Homo sapiens

<400> 56

Leu Ala Ile Val Leu Gly Val Phe Ile Ile Cys Trp Leu Pro Phe Phe
1 5 10 15

Ile Thr His Ile
20

<210> 57

<211> 20

<212> PRT

<213> Homo sapiens

<400> 57

Pro Ala Phe Val Val Tyr Ser Ser Ile Val Ser Phe Tyr Val Pro Phe
1 5 10 15

Ile Val Thr Leu
20

<210> 58

<211> 20

<212> PRT

<213> Homo sapiens

<400> 58

Arg	Val	Thr	Val	Met	Ile	Ser	Ile	Val	Trp	Val	Leu	Ser	Phe	Thr	Ile
1				5					10					15	

Ser	Cys	Pro	Leu
			20

<210> 59

<211> 20

<212> PRT

<213> Homo sapiens

<400> 59

Thr	Leu	Asp	Val	Met	Met	Cys	Thr	Ala	Ser	Ile	Leu	Asn	Leu	Cys	Ala
1				5					10					15	

Ile	Ser	Ile	Asp
			20

<210> 60

<211> 20

<212> PRT

<213> Homo sapiens

<400> 60

Val	Ser	Leu	Ala	Val	Ala	Asp	Leu	Leu	Val	Ala	Thr	Leu	Val	Met	Pro
1				5					10					15	

Trp	Val	Val	Tyr
			20

<210> 61

<211> 20

<212> PRT

<213> Homo sapiens

<400> 61

Tyr	Ala	Thr	Leu	Leu	Thr	Leu	Leu	Ile	Ala	Val	Ile	Val	Phe	Gly	Asn
1				5					10					15	

Val	Leu	Val	Cys
			20

<210> 62

<211> 20

<212> PRT

<213> Homo sapiens

<400> 62

Cys	Thr	His	Pro	Glu	Asp	Met	Lys	Leu	Cys	Thr	Val	Ile	Met	Lys	Ser
1				5				10						15	

Asn	Gly	Ser	Phe
			20

<210> 63

<211> 20

<212> PRT

<213> Homo sapiens

<400> 63

Leu	Ser	Ser	Thr	Ser	Pro	Pro	Glu	Arg	Thr	Arg	Tyr	Ser	Pro	Ile	Pro
1				5				10						15	

Pro	Ser	His	His
			20

<210> 64

<211> 24

<212> PRT

<213> Homo sapiens

<400> 64

Ile	Val	Asn	Leu	Ala	Val	Ala	Asp	Leu	Leu	Leu	Thr	Ser	Thr	Val	Leu
1				5				10						15	

Pro	Phe	Ser	Ala	Ile	Phe	Glu	Val
							20

<210> 65

<211> 24

<212> PRT

<213> Homo sapiens

<400> 65

Leu	Met	Ala	Leu	Leu	Cys	Val	Trp	Ala	Leu	Ser	Leu	Val	Ile	Ser	Ile
1				5				10						15	

Gly	Pro	Leu	Phe	Gly	Trp	Arg	Gln
							20

<210> 66
<211> 24
<212> PRT
<213> Homo sapiens

<400> 66

Leu Gly Ile Val Val Gly Cys Phe Val Leu Cys Trp Leu Pro Phe Phe
1 5 10 15

Leu Val Met Pro Ile Gly Ser Phe
20

<210> 67
<211> 23
<212> PRT
<213> Homo sapiens

<400> 67

Val Phe Lys Ile Val Phe Trp Leu Gly Tyr Leu Asn Ser Cys Ile Asn
1 5 10 15

Pro Ile Ile Tyr Pro Cys Ser
20

<210> 68
<211> 24
<212> PRT
<213> Homo sapiens

<400> 68

Leu Leu Gly Val Ile Leu Gly Gly Leu Ile Leu Phe Gly Val Leu Gly
1 5 10 15

Asn Ile Leu Val Ile Leu Ser Val
20

<210> 69
<211> 27
<212> PRT
<213> Homo sapiens

<400> 69

Cys Asn Ile Trp Ala Ala Val Asp Val Leu Cys Cys Thr Ala Ser Ile
1 5 10 15

Met Gly Leu Cys Ile Ile Ser Ile Asp Arg Tyr
20 25

<210> 70

<211> 22

<212> PRT

<213> Homo sapiens

<400> 70

Tyr Val Leu Phe Ser Ala Leu Gly Ser Phe Tyr Leu Pro Leu Ala Ile
1 5 10 15

Ile Leu Val Met Tyr Cys
20